

FUNCTIONAL LIPOSOME

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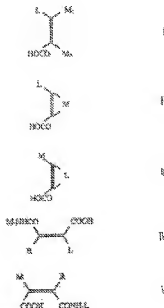
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Abstract of JP 10287554 (A)

PROBLEM TO BE SOLVED: To obtain a functional liposome wherein a modifying agent is released with time under mild conditions without depending on the difference of an environment and wherein the hydrophilicity or hydrophobicity of the surface is changed in response to the release of the modifying agent, by modifying a liposome with the modifying agent comprising a water-soluble polymer.

SOLUTION: This modified liposome is obtained by binding a liposome to a modifying agent comprising a water-soluble polymer through a covalent bond capable of being gradually broken under mild conditions. The bond between the liposome and the modifying agent is preferably a carbon-nitrogen double bond. A bond expressed by formula I (L is the liposome; M1 : M2 are each a linear or branched modifying agent), formula II (M is the modifying agent), formula III, formula IV, formula V, etc., is preferable. The modifying agent is especially preferably a linear polyethylene glycol.



Chemical structures I, II, III, IV, and V are shown, illustrating different bonds between a liposome (L) and a modifying agent (M).

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